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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF

THE INTERNATIONAL PRELIMINARY

EXAMINATION REPORT

Report

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(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing (day/month/year)

04.03.2004

Applicant's or agent's file reference

International application No.

PCT/EP 03/01229

VIB-034-PCT

International filing date (day/month/year)

07.02.2003

Priority date (day/month/year)

08.02.2002

Applicant

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To:

VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR ... et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

)

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

9)

European Patent Office D-80298 Munich

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference VIB-034-PCT				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No. PCT/EP 03/01229				International filing date 07.02.2003	(day/mon	th/year)	Priority date (day/month/) 08.02.2002	year)		
	International Patent Classification (IPC) or both national classification and IPC C07K16/28, A61K39/395									
Applicant VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR et al										
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.										
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.									
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).									
	These annexes consist of a total of sheets.									
3.	This	reno	rt contains indications re	elating to the following it	ems.					
0.		_		naming to the tenewing to						
	i H	⊠□	Basis of the opinion							
	11 []]		Priority	aninian with regard to m	aralta i	avantiva atan a	and industrial annilantiili			
	١٧		Lack of unity of invent	•	ioveity, ii	nventive step a	nd industrial applicabilit	у :		
	٧		Reasoned statement		ith regar atement	d to novelty, in	ventive step or industria	l applicability;		
	VI		Certain documents cit	ed						
	VII		Certain defects in the	international applicatior	1					
	VIII		Certain observations	on the international appl	lication					
Date of submission of the demand				Date of	completion of th	is report				
01.09.2003					04.03	.2004				
Name and mailing address of the International					Authori	zed Officer		CACHET AND		
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d					Irion,	A		A STATE OF THE STA		
Fax: +49 89 2399 - 4465						one No. +49 89 2	2399-8174	SOUTH TOWN		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/01229

ı.	Basis	of the	report
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•			nents of the international application (Replacement sheets which have response to an invitation under Article 14 are referred to in this report to this report since they do not contain amendments (Rules 70.16 and							
	D	escription, Pages		·						
	1-	23	as originally filed							
	. CI	laims, Numbers	and the second s							
	1-	3	as originally filed							
. 8	Sequ	ence listing part of	the description, pages:							
1	-9,	as originally filed								
2	. W lar	ith regard to the lang nguage in which the ir	uage, all the elements marked above were available or furnished to nternational application was filed, unless otherwise indicated under t	this Authority in the his item.						
•	Th	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of a tr	anslation furnished for the purposes of the international search (und	ier Rule 23.1(b)).						
			olication of the international application (under Rule 48.3(b)).							
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary exa	mination (under						
3.	. Wi inte	th regard to any nucl e ernational preliminary	eotide and/or amino acid sequence disclosed in the international a examination was carried out on the basis of the sequence listing:	application, the						
	\boxtimes	contained in the inte	ernational application in written form.							
	\boxtimes		ne international application in computer readable form.							
			ntly to this Authority in written form.							
			ntly to this Authority in computer readable form.							
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosu in the international application as filed has been furnished.									
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the ished.	e written sequence						
4.	The	e amendments have r	esulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:	· · ·						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sh	neet containing such amendments must be referred to under item 1 a	and annexed to this						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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6. Additional observations, if necessary: III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be nonobvious), or to be industrially applicable have not been examined in respect of: the entire international application. claims Nos. 1-3 (N, IS, IA) because: the said international application, or the said claims Nos. 3 (IA) relate to the following subject matter which does not require an international preliminary examination (specify): see separate sheet the description, claims or drawings (indicate particular elements below) or said claims Nos. 3 (N, IS,IA) are so unclear that no meaningful opinion could be formed (specify): see separate sheet the claims, or said claims Nos. 1-2 (N, IS, IA) are so inadequately supported by the description that no meaningful opinion could be formed. no international search report has been established for the said claims Nos. 2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the Standard.

the computer readable form has not been furnished or does not comply with the Standard.

EXAMINATION REPORT - SEPARATE SHEET

Item III

III.1 With respect to claims 1 and 2

Claims 1 and 2 do not meet the requirements of Article 5 and 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved, namely the inhibition of the expression and/or activity of prominin-1, which merely amounts to a statement of the underlying problem. Moreover, said claims are not supported by the description as required by Article 6 PCT, as their scope is broader than justified by the description.

Due to the severe objections concerning clarity, support and disclosure by the description an examination of said claims in their present form is not possible (see also III.2-III.5).

III.2 With respect to claim 1

The term "molecule" is defined by the result to be achieved. No information about the chemical nature of said molecule is given. Therefore, said claim is not supported by the description, as its scope is broader than justified by the description. Furthermore, claim 1 does not meet the requirements of Article 5 PCT in that the application as filed neither disclose a method to measure the activity of prominin-1 nor the activity itself. Moreover, the activity of prominin-1 does not appear to be known at all.

III.3 With respect to claim 2

- The term " a small molecule" used in claim 2 is vague and unclear and leaves the a. reader in doubt as to the meaning of the technical feature to which it refers, thereby rendering the definition of the subject-matter of said claim unclear (Article 6 PCT).
- b. The terms "an antibody", "an RNA aptamer", "a peptide", "a ribozyme", "anti-sense nucleic acids" and "siRNA" are not supported by the description. No single example of said molecules showing the alleged technical feature, i.e. inhibition of the expression or activity of prominin 1, is given. Therefore, claim 2 does not meet the requirements of Article 5 and 6 PCT.

III.4 With respect to claim 3

EXAMINATION REPORT - SEPARATE SHEET

Claim 3 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article. 34(4)(a)(i) PCT).

Moreover, during the regional phase, present claim 3 could be in conflict with Article 53(a) EPC, since present claim 3 encompasses testing the "molecules" in humans.

III.5 With respect to claim 3

The subject-matter of claim 3 does not meet the requirements of Article 6 PCT in that step 3 of the method, which is defined as a method to identify molecules that bind to prominin-1, is not related to identifying a molecule binding to prominin-1. Furthermore, the nucleic acid molecules identified do not bind the prominin-1 molecule, rather they code for proteins, which bind to prominin-1. Therefore, claim 3 is not clear.